

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF CLAIMS:

- 1.-3. (Canceled)
4. (Currently Amended) A micropore open cell foam composite comprising an open cell foam having an open cell content of 80% or more and an average pore size of about 1 to 200 microns and a phase change material wherein the phase change material is present in the open cell foam in the amount of 80% volume or greater and~~—The micropore open cell foam composite of claim 1 wherein~~ the phase change material comprises an organic linear, crystalline alkyl hydrocarbon or mixture thereof having an average carbon chain length of at least 8 carbon atoms and a phase change temperature between -40°C and 132°C.
5. (Original) The micropore open cell foam composite of claim 4 wherein the linear, crystalline alkyl hydrocarbon phase change material has an average carbon chain length of about 12 to 18 carbon atoms and a phase change temperature between 0°C and 30°C.
6. (Original) The micropore open cell foam composite of claim 5 wherein said phase change material is a mixture comprising hexadecane, pentadecane, and tetradecane.
7. (Original) The micropore open cell foam composite of claim 6 wherein said phase change material comprises about 45 to 50 weight percent hexadecane, about 30 to 35 weight percent tetradecane, and about 15 to 25 weight percent of a mixture of N-paraffins having an average chain length of about 15 carbon atoms.

8. (Original) The micropore open cell foam composite of claim 7 wherein said phase change material comprises about 48 weight percent hexadecane, about 32 weight percent tetradecane, and about 20 weight percent of a mixture of n-paraffins having an average chain length of about 15 carbon atoms.

9. (Currently Amended) A micropore open cell foam composite comprising an open cell foam having an open cell content of 80% or more and an average pore size of about 1 to 200 microns and a phase change material wherein the phase change material is present in the open cell foam in the amount of 80% volume or greater and~~The micropore open cell foam composite of claim 1 wherein~~ said phase change material further comprises an antioxidant in a concentration of about 0.1 to 1 weight percent.

10. (Currently Amended) A micropore open cell foam composite comprising an open cell foam having an open cell content of 80% or more and an average pore size of about 1 to 200 microns and a phase change material wherein the phase change material is present in the open cell foam in the amount of 80% volume or greater and~~The micropore open cell foam composite of claim 1 wherein~~ the phase change material is selected from the group consisting of fatty acids, fatty acid esters, primary alcohols, ethylene glycol copolymers, polyethylene oxide and polyethylene.

11.-12. (Canceled)

13. A micropore open cell foam composite comprising an open cell foam having an open cell content of 80% or more and an average pore size of about 1 to 200 microns and a phase change material wherein the phase change material is present in the open cell foam in the amount of 80% volume or greater and~~The micropore open cell foam composite of claim 1 wherein~~ the phase change material further comprises a soluble polymeric thickening agent wherein said

thickening agent is present in an amount of about 0.1 to 10% based on the weight of the phase change material.

14. (Original) The micropore open cell foam composite of claim 13 wherein said phase change material is an organic phase change material and said polymeric thickening agent is selected from the group consisting of styrene/butadiene random and block copolymers, polybutadiene, polyisoprene, polyisobutylene polymers and copolymers, ethylene/propylene copolymers, polymethyl methacrylate polymers, and low and high density polyethylenes.

15. (Original) The micropore open cell foam composite of claim 13 wherein the phase change material is a polar water-based composition and the polymeric thickening agent is selected from the group consisting of polyvinyl alcohol, polyethylene glycol, polyethylene oxide, polyacrylic acid, polymethacrylate acid and vinyl acetate/maleic acid copolymers.

16.-17. (Canceled)

18. (Currently Amended) A micropore open cell foam composite comprising an open cell foam having an open cell content of 80% or more and an average pore size of about 1 to 200 microns and a phase change material wherein the phase change material is present in the open cell foam in the amount of 80% volume or greater and. ~~The micropore open cell foam composite of claim 1 wherein the phase change material comprises a liquefied gas.~~

19. (Original) The micropore open cell foam composite of claim 18 wherein said liquefied gas is selected from the group consisting of liquid nitrogen, helium, carbon dioxide, air and mixtures thereof.

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20. (Currently Amended) A micropore open cell foam composite comprising an open cell foam having an open cell content of 80% or more and an average pore size of about 1 to 200 microns and a phase change material wherein the phase change material is present in the open cell foam in the amount of 80% volume or greater and. ~~The micropore open cell foam composite of claim 1 wherein the phase change material is solid carbon dioxide.~~

21.-39. (Canceled)